

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

KNOX COUNTY STONE COMPANY

Pursuant to "The Land Reclamation Act," RSMo. 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of

limestone in the state of Missouri. The extent of the

Proposed mining operation(s) will be on 56 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: **Renewal**

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Knox	25	62N	12W	56	0	56	Knox Co. Stone	0046

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 6th day of May 2004


DIRECTOR OF STAFF
Land Reclamation Commission

Permit No. 0038

Effective Date 05/06/2004

Expiration Date 08/31/2004

MO 780-1122 (6-95)



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

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APR 21 2004

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL Knox County Stone		MISSOURI LAND RECLAMATION COMMISSION		DATE 04/16/04	
ADDRESS 1701 5th Avenue		CITY Moline	STATE Illinois		ZIP 61265
CONTACT PERSON Gerard Gregg			TELEPHONE NUMBER 309.757.0522		
FEES: COMPLETE SECTION I OR SECTION II					
SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:					
1. To compute the site fee complete the information below:					
SITE NAME OR NUMBER (add a separate sheet for additional sites)		Mark each month that the site will be operated during the permit year.		For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300	
1. Edina Quarry KC01		Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec		\$ 300.00	
2.		Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec		\$	
3.		Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec		\$	
4.		Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec		\$	
5.		Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec		\$	
6.		Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec		\$	
7.		Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec		\$	
8.		Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec		\$	
9.		Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec		\$	
10.		Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec		\$	
TOTAL SITE FEE				\$ 300.00	
2. Acreage Fee \$5 X <u>56</u> number of acres bonded				\$ 280.00	
3. Annual Permit Fee				\$ 500	
4. Total Fee (Add totals from 1, 2, and 3)				\$ 1080.00	
NOTE: If Total Fee exceeds \$2500.00 then pay only				\$ 2,500	
SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:					
3. Annual Permit Fee				\$ 300	
SIGNATURE OF APPLICANT <i>Gerard J. Gregg</i>		TITLE Manager Environmental Services		DATE 04/16/2004	
Appeared before me this <u>16th</u> day of <u>April</u> , 20 <u>04</u> , <u>Gerard J. Gregg</u> to me personally known, who executed the above as their free acts and deeds.					
NOTARY PUBLIC EMBOSSEER SEAL		STATE OF <u>Illinois</u>			
		SUBSCRIBED AND SWORN BEFORE ME, THIS <u>16th</u> DAY OF <u>April</u> YEAR <u>2004</u>		USE RUBBER STAMP IN CLEAR AREA BELOW	
		NOTARY PUBLIC SIGNATURE <i>Stephen E. Clausen</i>		MY COMMISSION EXPIRES <u>07/24/2006</u>	
		NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>Stephen E. Clausen</u>		OFFICIAL SEAL STEPHEN E. CLAUSEN NOTARY PUBLIC - STATE OF ILLINOIS MY COMMISSION EXPIRES 7-24-2006	
FOR DEPARTMENT USE ONLY: APPROVED BY <i>[Signature]</i>		DATE APPROVED <u>5-4-04</u>		PERMIT NUMBER <u>38</u>	
				EXPIRATION DATE <u>8-31-04</u>	



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER KNOX COUNTY STONE - K501		PERMIT NUMBER 38
COMPANY NAME KNOX COUNTY STONE COMPANY		
COUNTY KNOX	1/4 SECTION NE 4	SECTION 25
TOWNSHIP T62	RANGE R12	ACRES WHOLE PROP - 449 QUARRY AREA - 160
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) -		
MINERAL COMMODITY LIMESTONE		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) CENTRAL STONE COMPANY		
ADDRESS RR#1 BOX 236 HANNIBAL		
CITY HANNIBAL	STATE MO.	ZIP CODE 63401
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT <input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) SAME		
ADDRESS		
CITY RECEIVED	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): MISSOURI LAND RECLAMATION COMMISSION		DATE OF AGREEMENT JUN 10 1993 <input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

(UPDATE)

REVISED
DEC - 8 1999
MISSOURI LAND RECLAMATION COMMISSION
P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

COMPANY NAME KNOX COUNTY STONE COMPANY

☒ LONG TERM, FOR PERIOD THROUGH DATE: 8-31-2020

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

The west half of the area is gently rolling crop/pasture ground. Rock Creek meanders across the bottom $\frac{1}{4}$ of the property. The area south of the creek is also gently rolling farm ground and with timber along the edges of the creek. The northeastern quarter of the property (where the quarry is located) is flat row cropped farm ground. Soil consists, in the flat area, of the Piopolis-Blackoar-Arbela systems, deep and poorly drained bottom lands. The higher elevations consist of the Armstrong-Leonard systems soils.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

12" topsoil and 8' of usable subsoil ~~XXXX~~

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

The topsoil will be removed using either dozers and scrapers or a dozer will push the top soil over the quarry face and the material will be loaded into a truck and hauled to a different location and stockpiled.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

We are very luck to have a large quantity of topsoil an subsoil that we can use adjacent to our quarry area. Most all of the remaining spoil will be placed in the quarry area. As this spoil is expanded into the quarry, the topsoil will not be saved for several years. When we can see reserves coming to an end, topsoil and subsoil will then be saved, put into a pile, graded, seeded, and mulched for protection. It will be placed in storage areas by trucks or scrapers and graded by dozers.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

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The quarry is now large enough that most spoil will be placed in a section of the quarry that has all reserves removed. This pile will be expanded as the quarry expands. The outside slope will be left at an angle of repose because of the lack of room. The final slope will be graded to be 3:1. If any spoil is placed outside the pit, it will be immediately graded to a rolling topography with 3:1 outside slopes.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

There ar no acid materials.

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See Map

YES NO

☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐ ☒ Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020 (D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1

5-3 Pasture Mix

PURPOSE OR LAND USE

Wildlife / Pasture

B. SEEDING OR PLANTING TIME

Fall / Spring

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Broadcast Seeding

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Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
5-3 Pasture Mix See Chart	30 lbs.	---	---

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Spoil place in pit will have a fairly flat top and 3:1 outside slopes. Pit will fill with water and cover most of spoil. There might be 25% of the slopes steeper than 3:1 because it will be reclaimed as wildlife area.

Any spoil placed outside pit will be gently rolling with all outside slopes graded to 3:1 and reclaimed as pasture/wildlife areas.

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C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

After all spoil is placed in the pit from the remaining reserves, the outside slopes will be graded to a 3:1 slope with the likelihood that 25% of the area will be left steeper than 3:1 and all reclaimed as a wildlife area. Any spoil outside quarry will be graded as placement is being accomplished.

REPLACEMENT OF TOPSOIL

SPOIL IN PIT - After all remaining spoil outside slopes have been graded, topsoil will be placed on spoil at least 1' in thickness.

CASE OF SPOIL-OUTSIDE PIT - The grading and topsoil will be replaced, one after the other stripping.

REVEGETATION

Outside Pit - After grading (Fall/Spring)

Inside Pit - After reserves have been depleted

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12"

D. USE OF LAND WHEN RECLAIMED

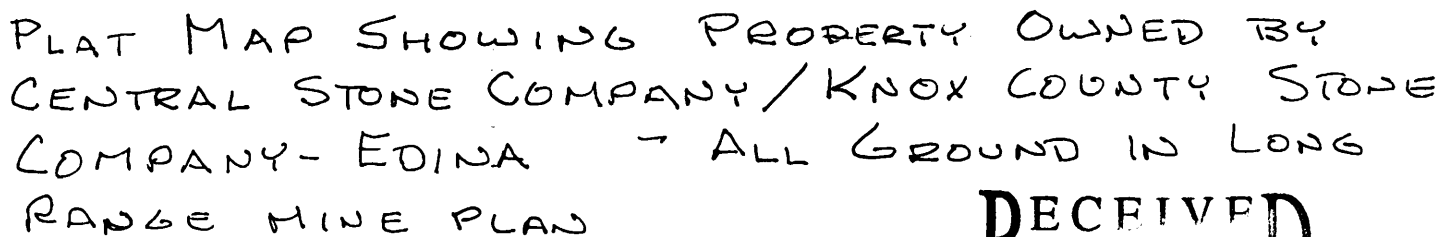
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	214
Agricultural (pasture, cropland, and horticultural)	120
Development (residential, industrial, and recreational)	55
Water impoundments (for wildlife, agricultural, or development)	60

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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SIGNATURE OF APPLICANT <i>Richard Klum</i>		TITLE <i>Geologist</i>	DATE <i>12-5-99</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE MISSOURI	COUNTY (OR CITY OF ST. LOUIS) ROLLS	
	SUBSCRIBED AND SWORN BEFORE ME THIS <i>6th</i> DAY OF <i>December</i> 19 <i>99</i>		
	NOTARY PUBLIC SIGNATURE <i>Shirley A. Bode</i>	MY COMMISSION EXPIRES 8-15-2000	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC NAME (TYPED OR PRINTED) SHIRLEY A. BODE		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>R. L. ...</i>		DATE APPROVED <i>12-10-99</i>	PERMIT NUMBER <i>0038</i>

MISSOURI LAND
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11-17-98

482-131



KNOX COUNTY STONE COMPANY. LONG RANGE LAND USE MAP- 1999

- ☐ WILDLIFE AREAS / FOREST - 214 AC.
- ☐ AGRICULTURAL (CROP/PASTURE) - 120 AC
- ☐ WATER IMPOUNDMENT - 60 AC.
- ☐ INDUSTRIAL - 55 AC

449 TOTAL

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1" = 924'

N
1

Map Showing Proposed New Areas to be Affected
Under Long Range Mine Plan
Permit #0038, T62N, R12W, Knox County, MO

- Property Line / Long Range Mine Plan Area
- Quarry Area Under Bond - 29 Ac.
29 Ac. + 4 Ac. Spoil area in Pit = 33 Ac
- Spoil Area Under Bond - 5 Ac.
- Proposed Area to be Stripped - 15 Ac.
- Proposed Area of Spoil Placement - 3 Ac.

Total Acres Under Bond:
38 (old) + 18 (new) = 56 Ac. Total

Map by Richard Klimstra 1" = 200'

